Record Nr.	UNINA9910484330603321
Titolo	Authentication of embedded devices : technologies, protocols and emerging applications / / editor, Basel Halak
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2021] ©2021
ISBN	3-030-60769-0
Edizione	[1st edition 2021.]
Descrizione fisica	1 online resource (XV, 188 p. 74 illus., 36 illus. in color.)
Disciplina	621.3815
Soggetti	Integrated circuits - Verification
	Embedded computer systems
	Computer engineering
	Computer organization
	Internet of things
	Microprocessors
Lingua di pubblicazione	Inglese
Lingua di pubblicazione Formato	Inglese Materiale a stampa
Lingua di pubblicazione Formato Livello bibliografico	Inglese Materiale a stampa Monografia
Lingua di pubblicazione Formato Livello bibliografico Nota di contenuto	Inglese Materiale a stampa Monografia Introduction Integrated Circuit Fingerprinting Novel PUF designs for device Identification Authentication Protocols: Standards, limitation and research opportunities Hardware-based Authentication Protocols for better physical security Energy Efficient Authentication Protocols Case study 1: Securing Hardware Supply Chain Case study 2: GPS spoofing attack detection and survival.

1.

The third part of the book focuses on emerging security applications for authentication schemes, including securing hardware supply chains, hardware-based device attestation and GPS spoofing attack detection and survival. Provides deep insight into the security threats undermining existing integrated circuit authentication techniques; Includes an in-depth discussion of the emerging technologies used to embed unforgeable identifies into electronics systems; Offers a comprehensive summary of existing authentication protocols and their limitations; Describes state-of-the-art authentication protocols that provide better physical security and more efficient energy consumption; Includes detailed case studies on the emerging applications of IC authentication schemes.